



driving convergence worldwide

**Date:** 23 May 2008

**To:** François Courau  
Chair, 3GPP RAN  
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**Cc.:** Juergen Caldenhoven  
Secretary, 3GPP RAN  
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**From:** Prof. Simon Saunders  
Chairman, Femto Forum  
[simon@femtoforum.org](mailto:simon@femtoforum.org)

**Re.:** Selection of RANAP Transport for HNB  
Liaison for 3GPP TSG-RAN Meeting #40  
Prague, CZ, 27th – 30th May 2008

Dear François:

At the RAN WG3 #60 meeting, an agreement was reached for the overall HNB architecture and documented in section 7 of TR 25.820. The Femto Forum, a Market Representation Partner of 3GPP, is very glad to hear that RAN WG3 has made such substantial progress.

Section 7 of the TR 25.820 report has concluded that the support of the 3G Home NodeB is ensured in principle within the framework provided in the UTRAN architecture, with support of legacy UEs and legacy core networks. The study report proposed enhancements to the lu interface architecture to provide a scalable architecture for supporting 3G HNBs connected through a new luh interface to HNB Gateways using unmodified lu-cs and lu-ps interfaces to the legacy core network.

It is our understanding that there is one architectural aspect that remains open at the present time. Three technical alternatives are documented for the transport of RANAP messages over the luh interface. The three alternatives are:

1. RANAP over SCCP
2. RANAP over SCTP with UE context indicated through PPI
3. RANAP over SCTP with lightweight adaptation layer

Following work conducted within the Networks working group of Femto Forum, members of 3GPP and Femto Forum<sup>1</sup> would like to indicate their strong preference for 3GPP RAN to select a single protocol stack for transporting RANAP messages. We encourage 3GPP RAN to evaluate the alternatives carefully and to adopt a single solution for the luh interface.

Yours sincerely,

A handwritten signature in cursive script that reads "Simon Saunders".

Prof. Simon Saunders  
Chairman  
Femto Forum

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<sup>1</sup> A full list of members is available at <http://www.femtoforum.org/femto/membership.php>